Regeneration of water from urine on space craft - using preserving agent with flushing water and evaporating at atmospheric pressure using capillary porous membranes.

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     The urine is collected and preserved with the aid of a preserving agent
     and flushing water, and extracting the water by evaporation at atmospheric
     pressure and at a temperature not above 60 deg.C with the aid of porous
     capillary polymer membranes, sorption-catalytic cleaning
     and disinfecting before storing for use as drinking water.
          For each dose of the preserving agent two doses of flushing water are
     used, one together with the preserving agent and the other without it. The
     evaporation is carried out in a closed circuit, and gas produced during
     heating is removed at the same time as filtering. The evaporation of water
     extracted from the urine on the surface of the porous capillary membrane
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is carried out by a continuous circulating air flow.

ADVANTAGE - More effective cleaning and higher condensate quality.
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